

Absorption Spectrum of Liquid Oxygen in Argon-Crypton Mixtures, by V. J. Dianov-Klokov.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
1956, pp 763-766.

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Sci - Chem
12 Oct 60

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Relative Values of Forces of Oscillators in Spectra
of Titanium and Manganese, by Yu. I. Ostrovskiy,

RUSSIAN, per, Optika i Spektroskopiya, Vol I, No 7,
1956, pp 821-832.

*Engr Res Devel. Lab Ft. Belvoir

Sci - Phys

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Anomalous Scattering of Light on
Glass, by A. L. Kolyadin.
RUSSIAN, per, Optika i Spektroskopiya,
Vol 1, No 7, 1956, pp. 907-16.
NLL Ref: 9022.81 (2499)

Sci-Phys
July 69

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Absorption Spectrum of Liquid Oxygen in
Argonne and Krypton Mixtures (11000-3300 Å),
by V. I. Dianov-Klokov, 11 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
1956, pp 863-866.

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24 Feb 61

AEC Tr-4314
OTS 60-06307

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Influence of Reabsorption on the Quantum Yield of
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Compounds, by V. M. Agranovich, A. N. Paidish,
13 pp. UWL

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No 7, 1956, pp 885-895. CIA 9036666

ACSL 994

(LOAN) NLL REF. C 578.9 1958 (994)

Sci - Phys
Mar 59

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Optics of Magnetic Crystals. I. Equations of the
Normals, by F. I. Fetis v. UNCLASSIFIED

RUSSIAN, per, Optika i Svetlos, Vol I, No 7, 1956,
pp 926-936.

Sci - Physics
Mar 58

Morris D. Friedman
MIT Lincoln Lab
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Spectral Analysis of Isotopic Compositions of Hydrogen-Deuterium Mixtures, by G. V. Weinberg, A. N. Zaidel, A. A. Petrov, 15 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I, 1956, pp 972-982.

AEC/IGRL-T/CA-111

Sci - Phys

0c5 59

Migration and Transmission of Electron Excitation Energy From the Base Material to the Impurity in Molecular Crystals in the Presence of Two Types of Excitons, by V. M. Agranovich, A. N. Faydysh, 7 pp. URG

RUSSIAN, per, Optika i Spektros., Vol I, 1956,
pp 983-987. CIA 9037938

ACSL 995

Sci - Phys
Apr 59

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Absorption and Luminescence of Divalent Rare-Earth
Ions in Crystals of Artificial and Natural Fluorite,
by P. P. Feofilov, 9 pp.

RUSSIAN, per, Optika i Spektro, Vol I, No 1,
1956, pp 992-999.

MDF F-127
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No 1, 2, 1957.

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The Problem of the Mechanism of the Interaction of Particles in a Discharge Plasma, by
E. F. Kozyreva.

RUSSLAN, per, Optika i Spektrou, Vol II, No 1.
1957, pp 43-48.

TRU/T.5210

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Sci - Physics

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Optical Properties of Uranium Hexafluoride, II.
Photoluminescence and Its Temperature Dependence,
by G. D. Shersmet'ev, 7 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II, No 1
1957, pp 99-105, 9206064.

AEC/AERE Tr 923

Sci - Phys

May 63

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Luminescence Decay Time of Colour Centres in
Ionic Crystals, by A. M. Bonch-Bruevich, G. A.
Tishchenko.

RUSSIAN. per. Optika i Spektroskopiya, Vol 2,
No 1, 1957, pp 136-140.

F911337667

AEC NP-TR-1566

Sci-Chem
Nov 67

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Bonch-Brouevich, A. M.

REMARKS ON THE TREATMENT OF THE RESULTS
OF A DIRECT EXPERIMENT PROVING THAT THE
VELOCITY OF LIGHT IS INDEPENDENT OF THE
VELOCITY OF A SOURCE OF RADIATION (K Vop-
rosu ob Obrabotke Rezul'tatov Pryamogo Optika po
Proverke Nezavisimosti Skorosti Svet'a ot Skorosti
Istochnika Izlucheniya) tr. by J. Hardy. [1962] [6p].
(foreign text included). 3 refs. [CSIRO] Trans. 570'.
Order from CTS or SLA \$1.10

62-23722

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 1, p. 141-142.

DESCRIPTORS: *Light, Velocity, Sources, Probability,
*Relativity theory.

An analysis of previous experimental results (Doklady
Akad. Nauk SSSR 109: 481, 1956 and Optika i Spektro-
skopiya 1: 113, 1956) shows that the probability that
(Physics--Optics, TT, v. 8, no. 4) (over)

62-23722

I. Bonch-Brouevich, A. M.
II. CSIRO Trans-5703
III. Commonwealth Scientific
and Industrial Research
Organization (Australia)

Office of Technical Services

On the Basic Electron State of Oxides of Molecules
of Group II Elements, by I. V. Veits, L. V.
Gurvich, 14 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
No 2, 1957, pp 145-149.

AEC UCRL-Tr-707

OTS 62-1074
182.533

Sci - Phys
Feb 62

Tolstol, N. A.

KINETICS OF INFRARED LUMINESCENCE OF COPPER OXIDE. II. THEORETICAL INTERPRETATION, tr. by B. W. Kuvshinoff. 27 Aug 62, 16p. 7 refs. APL/JHU TG 230-T326. Order from OTS \$0.50

63-11515

63-11515

- I. Tolstol, N. A.
- II. Title: Theoretical ...
- III. APL/JHU TG-230-T326
- IV. Applied Physics Lab.,
Johns Hopkins U.,
Silver Spring, Md.
- V. Contract N0W-62-0604-c

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2, no. 2, p. 210-219.

DESCRIPTORS: *Copper compounds, Oxides, *Infrared radiation, *Luminescence, Theory, Photoconductivity.

Three possible interpretations are discussed of the anomalous time-temperature increase in the relaxation of Cu₂O luminescence: (1) the effect of temperature on mobility, (2) the effect of the "heat barrier," and (3) the exciton mechanism of luminescence. The last is considered to be the most likely. (Author) (Physics, TT, v. 9, no. 3)

Office of Technical Services

Calculation of a Thin Multilayer Plate and a One-Layer Plate with an Effective Refractive Index,
by A. A. Vasil'kovskiy, 13 p.

RUSSIAH, per, Optika Spektroskopiya, 1957, Vol II,
No 2, pp 229-235.

SLA 59-20505

Sci
Mar 60
Vol 2, No 12

109,259

The Analytical Theory of Optical Properties of
Multi-Layer Dielectric Coatings, by P. G. Kard, 15 p.

RUSSIAN, per, Optika i Spektroskopiya, 1957, Vol XI,
No 3, pp 236-244.

SRA 59-20506

Sci.
Mar 60
Vol 2, No 12

S4A 62-70111

109,258

AB-100

Kard, P. G.

THEORY OF MULTILAYER COATINGS ON LENSES
FOR INCREASING THE TRANSMITTANCE OF LIGHT
[1962] 12p. 1 ref.

Order from OTS or SLA \$1.60

62-10986

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 2, p. 245-253.

DESCRIPTORS: *Coatings, *Dielectric films, *Optics,
Light transmission, Reflection, Penetration, *Lenses.

The previous theory (Optika i Spektroskopiya 2; 236-244,
1957; available in translation from OTS or SLA \$1.10
as 62-10971) is used for calculating multilayer coatings
for increasing the light transmittance of a lens. New
simple formulas are derived and a graph is suggested.
An optimum composition for 2-, 3-, and 4-layer
(Physics--Optics, TT, v. 8, no. 5)

(over)

62-10986

I. Kard, P. G.

Office of Technical Services

Krylova, T. N. and Sokolova, R. S.
ACHROMATIC REFLECTION-REDUCING FILMS.
1961, 8p.
Order from: CTT \$16.00

CTT-61P101

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2
[no. 2] p. 254-252.

DESCRIPTORS: *Photographic film, Films, Reflec-
tion, Reduction, Materials.

62-12978

- I. Title: Achromatic film
- II. Krylova, T. N.
- III. CTT-61P101
- IV. Columbia Technical
Translations, White
Plains, N. Y.

(Materials--Photographic, TT, v. 7, no. 12)

Office of Technical Services

Reflection of Light from a Liquid Surface and
Its Connection with the Process of Crystallization
by V. A. Kizel', A. P. Stepanov, 13 p.

RUSIAN, per., Optika i Spektroskopiya, 1957,
Vol XI, No 2, pp 263-268.

SLA 59-20362

Sci
Mar 60
Vol 2, No 12

109261

English Title Unknown, by P. A. Teplyakov.
RUSSIAN, par, Optika i Spektroskopiya, Vol 2,
1957, pp 269-271.
NLL REF: 5413.2835 (MUL-tr-95)

Sci-Chem
Aug 68

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406.

FDD X 2624

Spectrum of Ionized Uranium, by N. G. Morozova,
G. P. Startsev, 4 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
1957, pp 282-284. DIA 9077950

AEC-tr-4596

Sci - Phys

Aug 61

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On the Motion of Ions and the Contour of Their
Lines in the Positive Column of the Discharge.
I. The Directed Movement of Ions in a Discharge
of Low Pressure, by Yu. M. Xagan, V. I. Perel,
10 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
1957, pp 298-303.

AEC MP-70

Sci-Mic Phys

Dec 58

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Absorption Spectra of Benzene Crystals at
200 40k, by V. L. Ercoude, V. S. Medveydev,
10 pp.

RUBSLAN, per, Optika i Spektroskopiya,
Vol II, No 3, 1957, pp 317-322.

SLA 60-21766

Sci
Vol IV, No 7
May 62

193, 679

The Effect of Deformation on the Spectra of Crystals, by V. L. Broude, O. S. Pukhomova, A. F. Prikhodko, 8 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
No 3, 1957, pp 323-329.

ATS 26J18R
SLA R-3185

Sci
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Effect of the Solvent on the Fluorescence and
Absorption Spectra of Some Phthalimide Deriva-
tives, by V. V. Zelinskiy, et al,
RUSSIAN, per, Opt. i Spektroskopiya, Vol 11,
1957, pp 402-405.
AT&T NJ-4657

Sci-Phys
Apr 67

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409 - 544.

FDD X 2624

Temperature Distribution in a Spark Discharge Plasma
at High and Low Voltage, by D. B. Gurevitch, V. K.
Prokof'ev, 11 pp.

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pp 417-420.

AEC CEA Tr R375

REVERSE Trans Russian to French
Feb 59

Analysis of Halogens in Non-Volatile Oxides, by N. P.
Chaika, 14 pp.

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pp 421-425.

AEC CEA Tr R469

Reverse Trans Russian to French
Feb 1959

Dependence of the luminescence Yield of Plastic
Scintillators With Triphenylpyrrole on Tempera-
ture, by I. M. Bezenec, 11 pp.

RUSSIAN, new, Optika i Spektroskopiya, Vol II,
1957, pp 580-487.

ABC Tr 3568

Sci - Phys

May 59

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Optics of Magnetic Crystals. III. Uniaxial and
Unirefractive Magnetic Crystals, by F. I. Fedorov.

RUSSIAN, per, Optika i Spektr, Vol III, No 4, 1957,
pp 514-523.

Morris B. Friedman
MIT Lincoln Lab

Sci - Physics
Mar 58

60, 542

Luminescence Yield of Scintillators in Plastic Material
with Triphenylpyrazoline as a Function of Temperature,
by I. M. Rozman, 17 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II, 1957,
pp 480-487.

AEC/CIA Tr R381

Reverse Trans Russian to French
Feb 59

Luminescence Spectra of Plastic Scintillators
With Triphenylpyraseline, by E. A. Andreyashchev,
I. N. Rozenman, 8 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol XI,
1957, pp 488-493.

AEC Tr 3571

Sci - Phys

May 59

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Some Problems Of Spectrophotometry Of Light-scattering Media by A.P. Ivanov.

RUSSIAN, per, Optika I Spektroskopiya, Vol II,
No 4, 1957, 524-529.

CSIRO Tr 4096

Oct. 62

Device for Observing Anomalous Dispersion in
Rapid Processes, by A. M. Shikhtin, V. S. Egorov.

RUSSIAN, per, Optika i Spektroskopija, Vol II,
No 4, 1957, pp 543-544.

Navy Pr 3457/APL 349

Sci - Engr
Aug 63

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Optika i Spektroskopiya, Vol II, No 5, 1957,
pp 545 -681/

FDD X 2624

The Structure of Absorption Bands of Liquid H₂O,
D₂O and HDO Determined by the Structure of their
Molecules, by N. O. Bulanin, 11 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
1957, pp 557-561.

Classification ABC EE 773
C. C. J. 2/2
3/4 2/2 2/2
Sci - Chem 2/2 2/2
Feb 59 2/2 2/2
C. C. J. 2/2

81, 313

APPROVED FOR RELEASE: 09/14/ 2001

CIA-RDP84-00581R000300850057-0

Theory of Impurity Light Absorption in Molecular Crystals by E. I. Rashba, 12 pp.

RUSSIAN, per, Optica i Spektrskopiyia, Vol II, 1957,
pp 568-577.

AEC-tr-5967

Sci - Phys
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CIA-RDP84-00581R000300850057-0

Structure of Alkali-Halide Phosphors
and Mechanism of Luminescence Process,
by L. M. Shamovsky, et al, 6 pp.

RUSSIAN, per, Optika i Spektroskopiya,
Vol II, 1957, pp 599-605.

CSIRO

Sci - Chem
Nov 61

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Atomic Absorption and Luminescence Centers in
Alkali Metal Halide Phosphors Activated by Heavy
Metal Ions and Their Formation Under the Effect
of Hard Radiation, by M. L. Kats.
RUSSIAN, per, Optika i Spektroskopiya,
Vol 3, No 6, 1957, pp 602-609.
Dept of Navy API/JHU T-2168

Sci/Nucl Sci
Nov 68

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Electrophotometric Investigations of Night Sky
Brightness, by S. F. Rodionov, 16 pp. UNCLASSIFIED

RUSSIAN, no per, Optika i Spektroskopiya, Vol II,
No 5, Leningrad, May 1957, pp 606-615.

US JPRS/NY-L-26

Sci - Physics
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Shklyarevskii, I.N. and Ryazanov, A.N.
DISPERSION DE LA SAUTE DE PHASE DES PELLICULES MINCES D'ALUMINIUM (Dispersion of the Phase Jump in Thin Aluminum Films). 14p. 13refs.
CNRS-XVIII 62.
Order from OTS, ETC or CNRS \$1.60 TT-62-28870

Trans. in French of Optika i Spektroskopiya (USSR)
1957, v.2, no.5, p.645-650.

DESCRIPTORS: *Metal films, Aluminum, Zinc compounds, Sulfides, Phase studies, Spectroscopy.

TT-62-28870

I. Shklyarevskii, I.N.
II. Ryazanov, A.N.
III. CNRS-XVIII 62
IV. Centre National de la Recherche Scientifique, Paris

(Physics --Spectroscopy, TT, v. 11, no. 9)

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European Translations Centre

Double Refraction of Fluoride Films,
by K. D. Sineinikov, et al, 6 pp.

RUSSIAN, per, Optika i Spektroskopiya,
Vol II, No 5, 1957, pp 651-657.

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Sci - Phys
Nov 61

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New Method of Editing Spectra in an Atomic Beam
by V A Gromov, 4 pp.

RUSSIAN, per, Optika i Spektroskopija, Vol II,
1957, pp 669-671.

AEC Tr 3508

Sci - Nucl Phys
Feb 59

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Relative Quantities of the Principal Terms of the
Diffusion and Cutting Series AL 1, by Yu. I. Ostrovski.

RUSSIAN, Optika i Spek, Vol ii, 1957, p 673.

*PL480

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61-23770

- Lisitsa, M. P. and Tsvalykh, N. G.
OPTIQUE DES COUCHES FINES. DÉPHASAGE DANS
LA REFLEXION DE LA LUMIÈRE PAR LES COUCHES
MINCES D'ARGENT, DE GERMANIUM DE TELLURE
ET DE SELÉNIUM (Optics of Thin Films. Dephasing
in the Reflection of Light by Thin Films of Silver,
Germanium, Tellurium, and Selenium) tr. by
M. B. De Trezinsky. 28 Dec 59 [8]p. 15 refs. CEA
Trans. no. R 794 (text in French).
Order from OTS or SLA \$1.10 61-23770
- I. Lisitsa, M. P.
II. Tsvalykh, N. G.
III. CEA-tr-R794
IV. Commissariat à l'Energie
Atomique (France)

176683

Office of Technical Services

(Physics--Optics, TT, v. 6, no. 6)

On Concentrations of Excited Atoms of Neon in
a Discharge in a Hollow Cathode, by I. P.
Bogdanova and Chen Gi-Tchek.
RUSSIAN, per, Optika i Spektroskopiya, 1957,
Vol 2 No 6, pp 681-688.
NLL RTS 2456 (On Loan or Purchase)
CFSTI TT -64-19965 -

Aug 65 288,795

Absorption Spectra of Crystals of Plutonium Salts,
by A. M. Leontovich, 11 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II, 1957,
pp 695-703.

AEC Tr 3716

Sci - Phys

Sep 59

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CIA/FDD X-2608

Nov 57

Infrared Spectrum and Structure of the
Phosphorus Trioxide Molecule. by T. A.
Siderov, et al. UNCLASSIFIED

RUSSIAN, per, Optika i Spektros., Vol II,
No 6, 1957, pp 710-716.

Co-Op Tr Sub
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Sci - Mass Phys
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Infrared Spectrum and Structure of the
Phosphorus Pentoxide Molecule, by T. A.
Sidrov, et al. UNCLASSIFIED

RUSSIAN, per, Optika i Spektro, Vol III, No 6,
1957, pp 717-723.

Co-Op Tr 808
Tr 458

Sci - Phys
Sep 58

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Akinov, A. I.

A NOMOGRAM FOR USE IN SPECTRUM ANALYSIS
OF RARE EARTH ELEMENTS BY THE ADDITION
METHOD (Primenie Raschetnogo Gridulirovchnogo
Grafska pri Spektral'nom Analize Reikkozemel'nykh
Elementov po Metodu Dobavok). [1963] [9p] 7refs
Order from CTS, SLA, or ETC \$1.10 TT-63-23705

TT-63-23706

I. Akinov, A. I.
II. Scripta Technica, Inc.,
Washington, D. C.

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 6, p. 809-811.

Other translations are available from LC or SLA
ni\$1.80, ph\$1.80 as TT-59-22380 [1959] 9p; In French
from CTS or SLA \$1.10 as TT-61-23821, CEA-tr-R853,
22 Mar 60 [9p]

For abstract see Technical Translations 3: 388, 1960.

DESCRIPTORS: *Rare earth elements, Impurities,
Alloys, Spectroscopy, *Nomographs,
(Physics--Spectroscopy, TT, v. 11, no. 6)

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RUSSIAN, per, Optika i Spektroskopiya, Vol III, No 1,
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CIA/FDD X-2676

Dec 57

On the Theory of Electron Spin Resonance in a Crystal
in Ionic Crystals (Continuum Model of F-Center --
Smoothed Function, by M. F. Deigen, L. A. Shul'man.

RUSSIAN, per, Optika i Sptekro, Vol. III, No 1, 1957.

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Sci - Physics
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APPROVED FOR RELEASE: 09/14/ 2001

CIA-RDP84-00581R000300850057-0

Effect of Thermal Irradiation Background on
Spectroscopic Processes, by B. I. Stepanov, 12 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
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AEC Tr-4519

Sci
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APPROVED FOR RELEASE: 09/14/ 2001

CIA-RDP84-00581R000300850057-0

New Tables for Calculating Chromaticity
Coordinates, by N. V. Lobanova, G. S.
Rautian, 7 pp.

RUSSIAH, per, Optika i Spektrum Spektroskopiya,
Vol III, No 1, 1957, pp 77-81.

CIA/FED XX-577
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Sci - Physics
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NLL 1-2576

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USIS INTERNAL USE ONLY

Ultraviolet Absorption Spectrum of Molecules of
Aromatic Amines, Adsorbed on Aluminosilica Gel,
Bentonite and Silica Gel, by E. I. Kotov.

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
No 2, 1957, pp 115-122.

AMIS RJ-1274

Sci - Chem
Apr 60

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Study of Molecular Dichroism by Means of an
Artificial Orientation of the Molecules, by L. V.
Smirnov, 16 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol III, 1957,
pp 123-133.

AEC Tr 3263

Sci - Chem

Sep 58

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On the Comparison of Low Inertia Receivers of
Infrared Radiation, by M. N. Markov. UNCLASSIFIED

RUSSIAN, per, Optika i Spektral, Vol III, No 2, 1957,
pp 158-161.

Sci - Physics
Mar 58

Morris D. Friedman
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60546
SLA 62-18268
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NL 1.1.1.1.1.1

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CIA-RDP84-00581R000300850057-0

A Photoelectric Pyrometer for the Measurement
of Color Temperature of Flames, by N. N. Sobolev.

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
No 2, 1957, p 162.

Navy 2225/R-135

Sci - Physics
Jul 59

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APPROVED FOR RELEASE: 09/14/ 2001

CIA-RDP84-00581R000300850057-0

High-Speed Infrared Spectrometer for the 0.8-3.0
Band, by O. D. Dmitryevskiy, B. S. Neporent, V. A.
Nikitin, 3 pp.

RUSSIAN, per, Optika i Spektroskop, Vol III, No 2,
1957, pp 180-181.

SLA R-3264

Sci
Jul 59

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Stark Effect in Rotational Spectra of Molecules of the Asymmetrical Top Type in the Presence of Quadrupole Interaction (the Case of $\mu=eQq$), by E. Zemskov.

RUSSIAN, per, Optika i Spektroskopiya,
Vol III, No 2, 1957, pp 183-186.

CSIRO 4152

Sci - Phys
Aug 62

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Luminosity of a Spectrometer With a
Fabry-Perot Interferometer, by
M. P. Chaika, 18 pp.
RUSSIAN, per, Optika i Spek, Vol III,
No 4, 1957, pp 372-379. PI00085567
AFCRL G-T-R-65-16

Sci - Phys
Mar 67

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Atomic Absorption Centers and Luminescence
Phenomena in Heavy-Element Activated Alkali-Halide
Phosphors, and Their Preparation Under the
Influence of Band Radiation, by M. L. Kats, 10 pp.
RUSSIAN, per, Optika i Spektroskopiya, Vol III,
No 6, 1957, pp 602-609, 9230424.
AEC IS-trans-18

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Optical Absorption by PbCl₂ With a Stoichiometric Excess of Metal or Halogen,
by N. M. Gudris, I. N. Shul'ts, 5 pp.

RUSSIAN, per, Optika i Spektroskopiya,
Vol III, 1957, pp 246-250.

ATS-25M39R
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Vol IV, No 2

Mar 62

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Optical Properties of Thin Layers of Cadmium Oxide
in the Infrared Region of the Spectrum, by V. K.
Miloslavskiy,

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
No 3, 1957, pp 251-257. 9071338

Sci - Phys

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Neporent, B. S., Vasilevskii, K. P. and others.
A VACUUM SPECTROMETER WITH DIFFRACTION
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